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TITLE : INHIBITOR OF RISE AND DROP IN BLOOD PRESSURE AND ITS PRODUCTION

ABSTRACT : PURPOSE: To obtain an inhibitor for rise and drop of blood pressure, showing effects with a small amount of administration, comprising a water-soluble hemicellulose having a molar ratio of xylose and arabinose in a specific range.

CONSTITUTION: An inhibitor for rise and drop of blood pressure, comprising a water-soluble hemicellulose having a saccharide composition with a molar ratio of xylose and arabinose of 1:(0.95-1.2). The preparation is obtained by (i) partially hydrolyzing a water-soluble hemicellulose (preferably with an enzyme), treating the hydrolyzate with an ultrafilter having 8,000-50,000 fractionated molecular weight, separating and recovering a fraction having the above-mentioned saccharide composition, (ii) by dissolving a hemicellulose in a buffer solution having pH 7.5-8.5, passing through an anion exchange resin, absorbing, eluting using an aqueous solution of sodium chloride and recovering a fraction to elute at 0.1-0.3mol concentration and (iii) by adding 80% ethanol solution to a water-soluble hemicellulose and recovering a fraction having the above-mentioned composition from supernatant liquid from which the formed precipitate is separated and removed.

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